

CLAIMS

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is as follows:

Sub A1

1 1. A method of encryption of a data file
 2 transmitted to a decoder, said method comprising
 3 steps of
 4 defining a write order of data blocks of said
 5 data file to non-sequential storage locations of a
 6 mass memory in accordance with a first key and
 7 allocating corresponding sectors,
 8 storing said data blocks in memory in
 9 accordance with said write order and updating said
 10 file allocation table,
 11 encrypting the file allocation table with a
 12 key, forming an encrypted file allocation table, and
 13 storing said encrypted file allocation table to
 14 said mass memory.

Sub B3
 1 2. A method as recited in claim 1 wherein said
 2 mass memory is a hard disk drive.

1 3. A method as recited in claim 1 wherein said
 2 mass memory is a compact disk recorder/player.

1 4. A method as recited in claim 1, wherein said
 2 updating in a file allocation table is performed in
 3 accordance with a second key.

1 5. A method as recited in claim 4, wherein said
2 encryptig step is performed in accordance with a
3 third key.

1 6. A method as recited in claim 4, wherein said
2 first and second keys are identical.

1 7. A method as recited in claim 5, wherein said
2 second and third keys are identical.

1 8. A method as recited in claim 5, wherein said
2 second and third keys are identical.

1 9. A method as recited in claim 1, including the
2 further steps of
3 loading a portion of said file, as blocks of
4 data, into a memory queue,
5 setting a counter in accordance with a number
6 of blocks in said memory queue, and
7 performing said step of defining a write order
8 in accordance with said counter.

1 10. A method as recited in claim 1, wherein said
2 data file contains audio and video data, said method
3 including the further step of
4 separating audio and video into respective data
5 blocks.

Sub A2

1 11. A method as recited in claim 1, wherein said
 2 data blocks include headers, said method including
 3 the further step of
 4 Including said write order in said header.

1 12. A method as recited in claim 1, including a
 2 further step of
 3 transmitting encryption software for performing
 4 said encryption of said data file to said decoder.

1 13. A method as recited in claim 12, wherein said
 2 encryption software includes said first key.

Sub A3

1 14. A decoder for receiving a digital transmission
 2 of a data file including
 3 means for defining a write order of data blocks
 4 of said data file to non-sequential storage
 5 locations of a mass memory in accordance with a
 6 first key and allocating corresponding sectors,
 7 means for storing said data blocks in memory in
 8 accordance with said write order and updating said
 9 file allocation table in a file allocation table,
 10 means for encrypting the file allocation table
 11 with a key, forming an encrypted file allocation
 12 table, and
 13 means for storing said encrypted file
 14 allocation table to said mass memory.

1 15. A decoder as recited in claim 14, wherein said
 2 means for storing said data utilizes a second key
 3 and said means for encrypting the file allocation
 4 table utilizes a third key.

1 16. A decoder as recited in claim 15, wherein two
2 of said first, second and third keys are identical.

1 17. A decoder as recited in claim 14, further
2 including
3 means for loading a portion of said file, as
4 blocks of data, into a memory queue, and
5 means for setting a counter in accordance with
6 a number of blocks in said memory queue
7 wherein said means for defining a write order
8 is responsive to said counter.

1 18. A decoder as recited in claim 14, wherein one
2 of said first, second and third keys is not shared
3 with any other device.

1 19. A decoder as recited in claim 14, further
2 including
3 means for receiving encryption software for
4 encrypting said data file.

1 20. A decoder as recited in claim 14, further
2 including a port to an outboard mass storage device.

ADD A4 >